

## **WATER TREATMENT PLANT OPERATOR A**

Grade: 11  
Full time, non-exempt, emergency  
Effective: July 1, 2003

### **GENERAL DEFINITION AND CONDITIONS OF WORK:**

Performs intermediate skilled and technical work operating a water treatment plant; does related work as required. Work is performed under the regular supervision of the Water Treatment Plant Chief Operator.

This is heavy work requiring the exertion of 100 pounds of force occasionally, up to 50 pounds of force frequently, and up to 20 pounds of force constantly to move objects; work requires climbing, balancing, stooping, kneeling, crouching, reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, and repetitive motions; vocal communication is required for expressing or exchanging ideas by means of the spoken word; hearing is required to perceive information at normal spoken word levels; visual acuity is required for depth perception, color perception, peripheral, preparing and analyzing written or computer data, visual inspection involving small defects and/or small parts, use of measuring devices, assembly or fabrication of parts at or within arms length, operation of machines, operation of motor vehicles or equipment, determining the accuracy and thoroughness of work, and observing general surroundings and activities; the worker is subject to inside and outside environmental conditions, hazards, atmospheric conditions, and wearing a self contained breathing apparatus.

### **ESSENTIAL FUNCTIONS/TYPICAL TASKS:**

**Operating a water treatment plant; taking samples; performing routine tests; ensuring proper plant operation; maintaining records and files; preparing reports.**

Operates a water treatment plant, wells and lift stations; makes regular inspections of plant and equipment ensuring continuous and effective operation;

Reads meters, gauges and dials; records statistical data; maintains logs of readings;

Starts and stops and makes minor repairs to pumps, motors and equipment; reports any problems or need for equipment repair to supervisor;

Maintains appropriate chemical levels by adjusting system controls and/or adding, adjusting and replacing chemicals in treatment plant's system;

Collects water samples and performs laboratory tests; identifies concentrations of chemical, physical or biological characteristics of water; records findings in log book; evaluates data and writes reports as required;

Performs a variety of preventive maintenance tasks such as oiling and adjusting power driven water pumps, changing chlorine tanks, cleaning equipment, changing oil, repairing pumps, valves and drive units, draining and cleaning tanks and basins, etc.;

Assures that plant, wells and pump stations operate within required standards;

Unloads chemical deliveries and loads chemicals into feed equipment;

Operates pumps and valves to control and adjust flow and treatment process;

Answers telephones and radios; makes copies of forms and records; maintains files and log records;

Performs building maintenance and cleaning and grounds maintenance including mowing and weedeating;

May perform the duties of Chief Water Treatment Plant Operator as qualified and assigned;

Performs related tasks as required.

### **KNOWLEDGE, SKILLS, AND ABILITIES:**

Thorough knowledge of equipment, facilities, methods and procedures used in water treatment plant maintenance and operation activities; thorough knowledge of laboratory procedures and practices for testing water samples; thorough knowledge of safety procedures and equipment used in performing assigned work; ability to monitor plant operations and to identify and implement needed control procedures; ability to operate and maintain water treatment equipment; ability to perform process control calculations; ability to communicate effectively orally and in writing; ability to understand and carry out written and oral instructions; ability to keep written records; ability to establish and maintain effective working relationships with associates.

### **EDUCATION AND EXPERIENCE:**

Any combination of education and experience equivalent to graduation from high school supplemented by on-the-job and formal instruction in water treatment plant operations and considerable experience in the operation of a water treatment plant.

### **SPECIAL REQUIREMENTS:**

Possession of an appropriate driver's license valid in the Commonwealth of Virginia. Possession of Class II or I Water Treatment Plant Operator's license.